

PHOTOCATALYST AND PRODUCTION THEREOF

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Abstract

PROBLEM TO BE SOLVED: To effectively use light energy such as solar light and sufficiently provide stain decomposing and hazing-preventive properties to various kinds of substrates such as glass, tiles, etc., by forming a solid acid on a semiconductive photocatalyst surface.

SOLUTION: This catalyst having excellent stain-proof, hazing-preventive, mildewproof, deodorizing, and anti-bacterial properties is produced by forming a solid acid on a semiconductive photocatalyst surface and the semiconductor photocatalyst is preferably an oxide semiconductor and especially one or more substances selected from TiO₂, Bi₂O₃, In₂O₃, WO₃, ZnO, SrTiO₃, etc., are used. Also, the solid acid to be used consists of oxides as a carrier (carrier oxides) and oxides (deposited oxides) deposited on the surface of the carrier and as the carrier oxides, one or more oxides selected from ZrO₂, SrTiO₃, Fe₂O₃, HfO₂, SiO₂, etc., are preferable and as the deposited oxides, one or more oxides selected from SO₄, WO₃, MoO₃, and B₂O₃ are preferable.

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